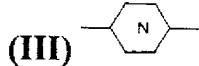


$R^{11}$  is a straight-chain or branched alkyl or alkyloxy radical having 6 to 14 carbon atoms, where one or two  $-CH_2$ -groups may be replaced by  $-O-$  and/or  $-C(=O)-$ ,



is 2-fluoro-pyridine-3,6-diy



is cyclohexane-1,4-diy

$R^{10}$  is a straight-chain or branched alkyl or alkyloxy radical having 6 to 14 carbon atoms, where one or two  $-CH_2$ -groups may be replaced by  $-O-$  and/or  $-C(=O)-$  and one H atom may be replaced by F

10  $R^{12}$  is hydrogen or a straight-chain or branched alkyl or alkyloxy radical having 6 to 14 carbon atoms, where one or two  $-CH_2$ -groups may be replaced by  $-O-$  and/or  $-C(=O)-$ .

15 In a very particular embodiment of the very particularly preferred liquid-crystal mixture,

(II) is 5-alkyl-2-(4-alkyloxyphenyl)pyrimidine, 5-alkyl-2-(4-alkylcarbonyloxyphenyl)pyrimidine, 5-alkylcarbonyloxy-2-(4-alkyloxyphenyl)pyrimidine or 5-alkyl-2-(4-alkyloxy-2,3-difluorophenyl)pyrimidine

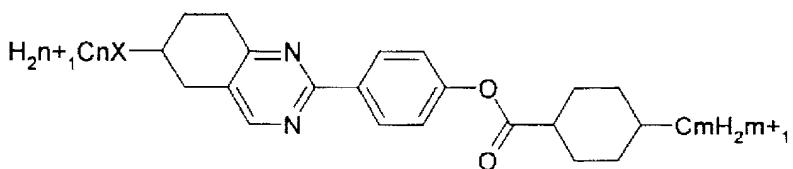
20 and,

(III)  $R^{10}$  is a straight-chain alkyloxy radical having 6 to 14 carbon atoms, where one H atom is replaced by F

25  $R^{12}$  is hydrogen.

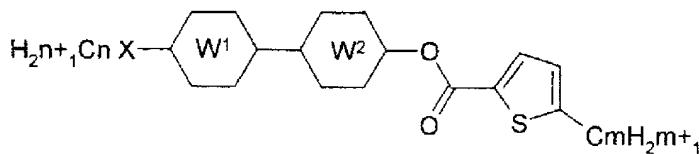
30 The chiral smectic liquid-crystalline mixture preferably comprises 10-60% of one or more compounds of the formula (I). The mixture particularly preferably comprises 10-60% of 1-15 compounds of the formula (I). The mixture particularly preferably comprises 10-60% of 1-15 compounds of the formula (I) and 40-90% of 2-15 compounds of the formula (II). In particular, the mixture comprises 10-60% of 1-15 compounds of the formula (I), 40-90% of 2-15 compounds of the formula (II) and 1-40% of 1-15 compounds from the group (III), (IV), (V), (VI) and (VII), the total amount 35 being 100%. The percentages are by weight.

The invention furthermore provides compounds of the general formula (I), selected from the compounds of the formula (XX), where



5

Compounds of the formula (XXI), where:



is 2-fluoropyridine-3,6-diyl, 4-fluoropyrimidine-2,5-diyl or phenylene-1,4-diyl or possibly pyridine-2,5-diyl, unsubstituted, mono-substituted or disubstituted by F



5 is 2-fluoropyridine-3,6-diyl, 4-fluoropyrimidine-2,5-diyl or phenylene-1,4-diyl or possibly pyridine-2,5-diyl, unsubstituted, mono-substituted or disubstituted by F

10 with the provisos that a) one of the rings  $\text{W}^1/\text{W}^2$  must be one of the nitrogen-containing heterocycles and n and m are preferably from 1 to 14 and X is -O- or a single bond. n can alternatively be an integer from 2 to 10 and m can be an integer from 3 to 10

or preferably

15 b) the grasping  $\text{W}^1\text{-}\text{W}^2$  is undirected and is 3-fluorobiphenyl-4,4'-diyl or 2-fluorobiphenyl-4,4'-diyl, where n, m and X are as defined below

c) the grasping  $\text{W}^1\text{-}\text{W}^2$  is undirected and is 2,3-difluorobiphenyl-4,4'-diyl, where n and m are from 1 to 14 and X is -O- or a single bond.